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**SPECIAL DATA COLLECTION SYSTEM (SDCS) EVENT REPORT,  
ANDREANOF ISLANDS, ALEUTIAN ISLANDS, 08 MARCH 1976**

**TELEDYNE GEOTECH**

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**MAY 1976**

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**SPECIAL DATA COLLECTION SYSTEM EVENT REPORT**  
**Andreanof Islands, Aleutian Islands, 08 March 1976**

**K.J. Hill, M.S. Dawkins, and M.D. Gillispie**

**Alexandria Laboratories**

**Teledyna Geotech, 314 Montgomery Street, Alexandria, Virginia 22314**

**MAY 1976**

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SDCS EVENT REPORT NO. 88

Andreanof Islands, Aleutian Islands, 08 March 1976

This event report contains seismic data from the Special Data Collection System (SDCS), and other sources for the above event. Published epicenter information from seismic observations is:

	"P" Arrival	Origin Time	Lat.	Long.	$m_b$	$M_s$
NORSAR	02:39:41.3	02:28:48	52 N	177 W	4.6	N/A
Hagfors	02:39:45.2	02:29:03	54 N	177 E	5.4	4.3

Using SDCS stations, LASA and NORSAR, the epicenter location and magnitudes become

02:28:31.5    49.6N    179.5W    5.0    4.7

The programs used for LASA, NORSAR and ALPA data recovery are presently undergoing modifications. Information for LASA short-period is reported from their Teleseism Event Report; NORSAR short-period data is obtained from their bulletin. The NORSAR TAL transmission plot included in this report has erroneous scaling factors. The long-period array beam recovery for these stations will be resumed upon completion of these modifications.

RK-ON was not operational during this period.

Short-period signals associated with this event were recorded at WH2YK, CPSO, HN-ME, FN-WV, LASA and NORSAR. All SP channels at HN-ME had polarity reversals; to correct this, mathematical inversions of the data were performed. Horizontal SP channels at WH2YK, CPSO, HN-ME and FN-WV were rotated.

Long-period signals were recorded at WH2YK, CPSO, HN-ME and FN-WV. All LP channels at HN-ME had polarity reversals; to correct this, mathematical inversions of the data were performed. Horizontal LP channels at WH2YK, CPSO, HN-ME and FN-WV were rotated.

Scaling factors on plots are millimicrons at 1 Hz (not corrected for instrument response).

# STATION DESCRIPTION

SITE CODE	LOCATION	SITE COORDINATES DEG MN SECS	ELEVATION METERS	INSTRUMENTATION	
				SHORT-PERIOD	LONG-PERIOD
ALPA	Alaska	65 14 00.0 N 147 44 36.0 W	626	None	31300
CPSO	McMinnville, Tennessee	35 35 41.4 N 085 34 13.5 W	574	6480 V 7515 H	SL210 V SL220 H
FN-WV	Franklin, West Virginia	38 32 58.0 N 079 30 47.0 W	910	KS36000	KS36000
LASA	Billings, Montana	46 41 19.0 N 106 13 20.0 W	744	HS10	7505A V 8700C H
HN-ME	Houlton, Maine	46 09 43.0 N 067 59 09.0 W	213	KS36000	KS36000
NORSAR	Kjeller, Norway	60 49 25.4 N 010 49 56.5 E	379	HS10	7505A V 8700C H
RK-ON	Red Lake, Ontario	50 50 20.0 N 093 40 20.0 W	366	18300	SL210 V SL220 H
WH2YK	White Horse, Yukon	60 41 41.0 N 134 58 02.0 W	853	18300	SL210 V SL220 H

Note: The orientation of the radial instruments at FN-WV is assumed to be 16° + 5° based on empirical data (event recordings). Rotation, where performed, is referenced to this azimuth and may be questionable.

# HYPOCENTER DETERMINATION

INPUT FOR EVENT 8 MAR 76  
02:28:48.0 52.000N 177.000W 0KM.

STA.	ARRIVAL	RESIDUALS		DIST.	AZ.
		CALC	REST	REST	REST
WH2YK	02 34 16.2	0.4	0.4	27.2	48.9
LAO	02 37 03.8	-0.8	-0.9	47.2	64.0
CPSO	02 39 20.5	0.6	0.6	66.2	62.7
HN-ME	02 39 28.5	-0.6	-0.6	67.7	44.4
PN-WV	02 39 28.7	0.4	0.5	67.5	56.7
NAO	02 39 41.3	-0.0	-0.0	69.6	354.6

## 67 HERRIN TRAVEL TIME TABLES

ORIGIN	LAT.	LONG.	DEPTH (KM)	SDV	IT	STA
02:28:29.3	49.538N	179.493W	-12. CALC	0.6	5	6
02:28:31.5	49.575N	179.460W	0. REST	0.6	3	6

CALC			
1	.	0	
0	.	3	
0	0.	0	2
.	.	.	.
0	0.	0	0
0	.	0	
0	0.	0	

REST			
1	.	0	
0	.	3	
0	0.	0	2
.	.	.	.
0	0.	0	0
0	.	0	
0	0.	0	

CHI2 COVERAGE ELLIPSE; 95 PER CENT CONF..LEVEL, SDV= 1.06  
MAJOR 117.8KM. MINOR 44.2KM. AZ= 18 AREA= 16341 SQ.KM. REST



# DATA SUMMARY

INPUT FOR EVENT 8 MAR 76  
02:28:48.0 52.000N 177.000W OKM.

STA.	PHASE	ARRIVAL		INST	PER	A/T	MAGNITUDE		DIR	DIST
		TIME					MB	MS		
WH2YK	EP	02 34	16.2	SPZ	0.5	4.	3.82			27.2
WH2YK	LQ	02 43	08.0	LPT	25.0	81.				
WH2YK	LR	02 45	28.0	LPZ	19.0	237.		4.93		27.2
LAO	EP	02 37	03.8	SAB	99.9	9999.				
CPSO	EP	02 39	20.5	SPZ	1.0	39.	5.29			66.2
CPSO	LQ	03 03	14.0	LPT	25.0	18.				
CPSO	LR	03 05	18.0	LPZ	23.0	42.		4.56		66.2
FN-WV	EP	02 39	28.7	SPZ	1.2	37.	5.27			67.5
FN-WV	LQ	03 04	09.0	LPT	22.0	20.				
FN-WV	LR	03 10	20.0	LPZ	19.0	53.		4.67		67.5
HN-ME	EP	02 39	28.5	SPZ	1.1	131.	5.82			67.7
HN-ME	LQ	03 02	59.0	LPT	27.0	44.				
HN-ME	LR	03 12	04.0	LPZ	18.0	44.		4.59		67.7
NAG	EP	02 39	41.3	AB	1.2	14.	4.78			69.6

ORIGIN	LAT.	LONG.	DEPTH (KM)	MAG	SDV	STA	LPNAG	LPSDV	LPSTA
02:28:29.3	49.538N	179.493W	0. CALC	5.00	0.75	5	4.69	0.2	4
02:28:31.5	49.575N	179.460W	0. REST	5.00	0.75	5	4.69	0.2	4



WH2YK 8 MAR 76

02:34:16.2

SPZ  
14.61 MU



SPR  
11.51 MU



SPT  
8.70 MU



TIME

10 SEC

02:34:30



CPS0 8 MAR 76

SPZ  
47.17 MU



SPR  
31.65 MU



SPT  
17.01 MU



TIME



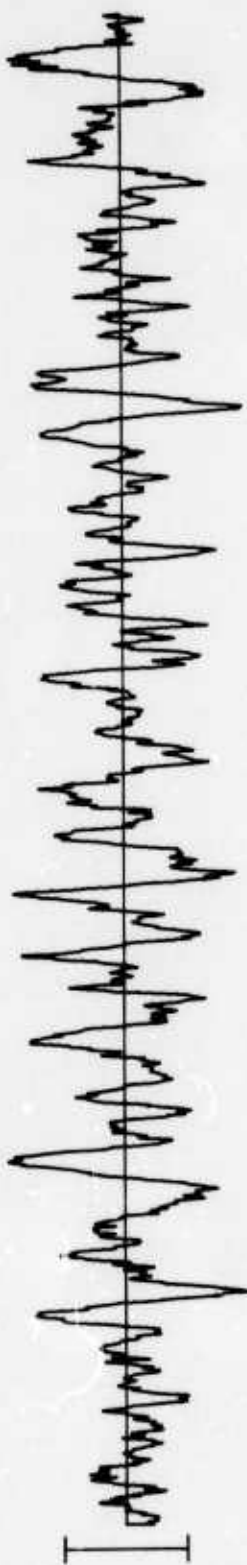
HN-ME 8 MAR 76

02:39:28.5

SPZ  
83.97 MU



SPR  
66.68 MU



SPT  
85.06 MU



TIME

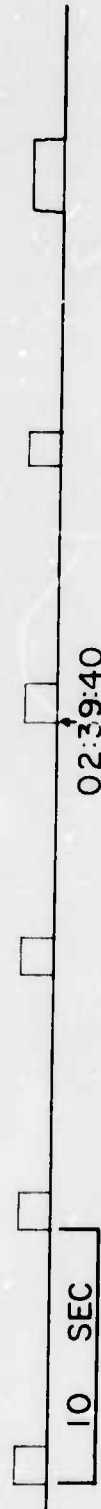


FN-WV 8 MAR 76

02:39:28.7



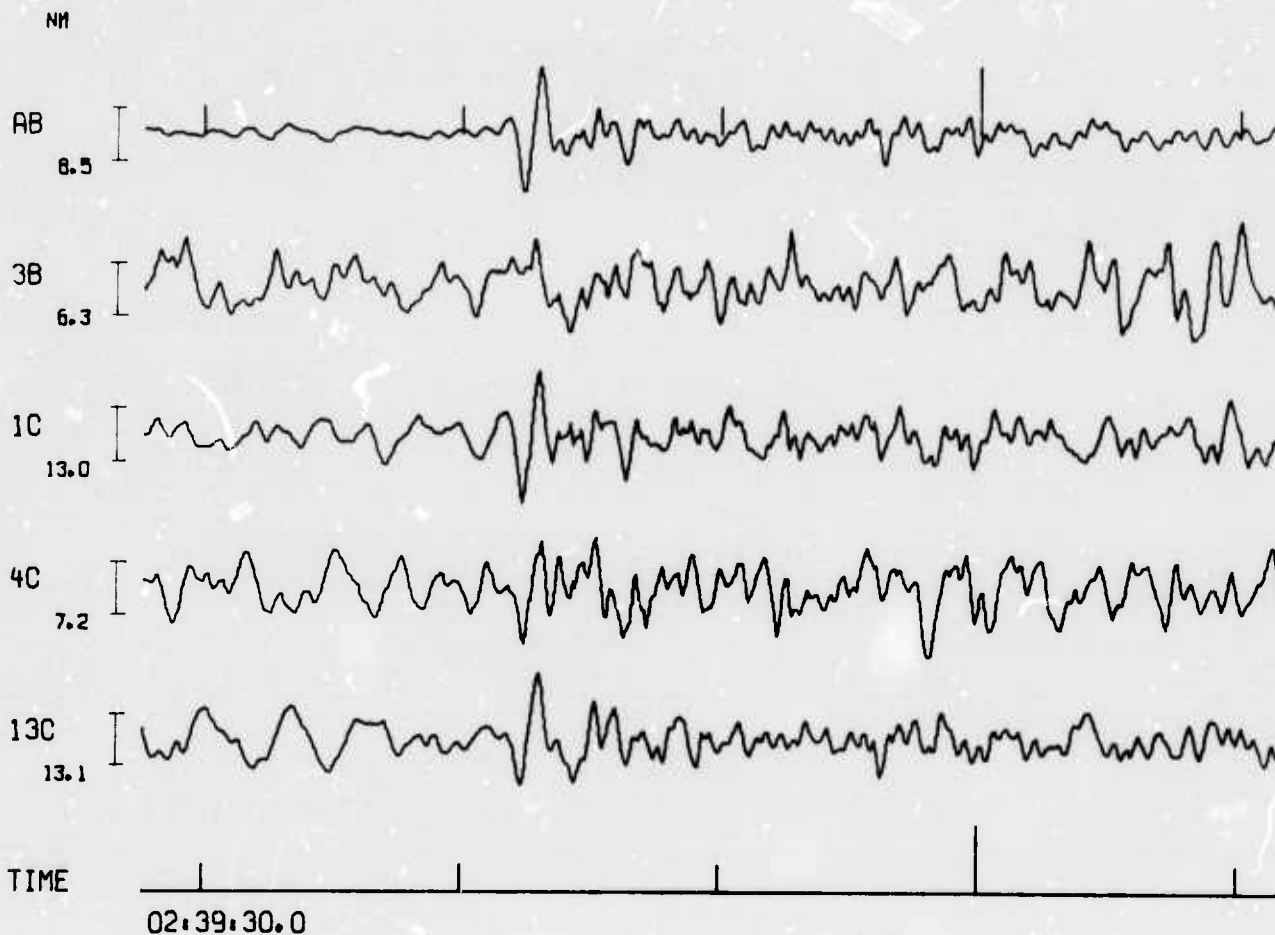
TIME



03/09/76



EPX 93270      NORSAR      8 MAR 1976  
ORIGIN 02:28:48 51.6N 177.2W 4.5 MB  
7 ANDREANOF IS., ALEUTIANS  
 $\Delta = 69.6$  BAZ= 7.9 C= 17.9 KM/SEC  
ERRORS= 9



WH2YK 8 MAR 76

LPZ  
2169.18 MU

02:45:28

LPR  
1475.49 MU

02:43:08

LPT  
1087.94 MU

TIME

2 MIN

02:45:00



CPS0 8 MAR 76

LPZ  
498.77 MU

03:05:18

LPR  
366.64 MU

03:03:14

LPT  
415.64 MU

TIME





FN-WV 8 MAR 76

LPZ  
231.33



LPR  
264.09



LPT  
412.69



TIME



HN-ME 8 MAR 76

LPZ  
400.69 MU

0312:04

LPR  
320.64 MU

0302:59

LPT  
658.73 MU

TIME

2 MIN

0305:00